

# Asia Pacific Pyranometer Market Forecast to 2030 - Regional Analysis - by Type (Photovoltaic Pyranometers and Thermopile Pyranometers) and Application (Photovoltaic Systems, Meteorology, and Climate Stations)

<https://marketpublishers.com/r/A0A2786C7B9AEN.html>

Date: February 2024

Pages: 73

Price: US\$ 3,550.00 (Single User License)

ID: A0A2786C7B9AEN

## Abstracts

The Asia Pacific pyranometer market was valued at US\$ 25.08 million in 2022 and is expected to reach US\$ 54.66 million by 2030; it is estimated to grow at a CAGR of 10.2% from 2022 to 2030.

### Growing Application of Pyranometers in Agriculture Industry Fuels the Asia Pacific Pyranometer Market

Pyranometers are being used in a wide range of applications in the agriculture industry. Pyranometers are used in agriculture to measure solar radiation levels for crop growth and yield prediction. Pyranometers are often used in agriculture to determine the amount of solar radiation absorbed by crops and soil. The information is critical because it allows farmers to calculate the energy available for photosynthesis (it is the process through which plants turn sunlight into energy, allowing them to grow and thrive). Pyranometers can assist farmers in identifying agricultural problems before they become severe. For example, a pyranometer reading can determine if a crop is not receiving appropriate solar radiation, encouraging the farmer to take action to improve the situation.

Similarly, if a crop receives excessive solar radiation, the farmer can take action to minimize the amount of radiation received. Such features of the pyranometer assist farmers in optimizing crop growth and increasing crop output and quality. Pyranometers are great tools for increasing crop yield and quality. They also assist farmers in

optimizing fertilizer use and water use, which helps to reduce harmful environmental effects. Thus, the rising application of pyranometers in agriculture is driving the growth of the pyranometer market.

## Asia Pacific Pyranometer Market Overview

Asia Pacific (APAC) is experiencing a remarkable surge in the solar energy sector owing to the establishment of new photovoltaic power plants in Mongolia, China, India, and other countries. Increasing awareness regarding the importance of clean energy in developing nations has fueled the development of solar panels, thereby boosting the adoption of pyranometers as they are crucial for accurately measuring solar radiation and optimizing solar energy generation.

For instance, in September 2023, the Mongolian government, in collaboration with the Asian Development Bank, inaugurated a 10 MW photovoltaic power plant in Mongolia. This plant is expected to produce 20 million kW-hours of energy annually. To achieve this goal, pyranometers are likely to be employed to provide precise readings of solar radiation, ensuring maximum energy output from the solar panels. In June 2023, China's Kela photovoltaic (PV) power station stood as a testament to the region's commitment to clean energy. This high-altitude facility, combining solar and hydropower, highlights the growing importance of reliable solar energy production. Pyranometers play a pivotal role in aiding in the efficient generation of clean energy as they help measure solar irradiance.

In addition, advancements in pyranometer technology have bolstered the solar energy industry in APAC. In August 2022, EKO Instruments introduced the MS-80SH, an innovative addition to its MS-80 series of Class A pyranometers. This device incorporates an integrated dome heating system to resist dew and frost, ensuring consistent performance in photovoltaic system monitoring and scientific research. Its low power consumption of under 1.4W is an industry-leading efficiency feature. APAC is witnessing a surge in the solar energy sector, driven by the establishment of photovoltaic power plants and the increasing awareness of clean energy. Pyranometers are a major growth factor, facilitating accurate solar radiation measurements and contributing to the region's transition towards sustainable energy sources. Additionally, advancements in pyranometer technology are further enhancing the overall efficiency and performance of solar energy systems in the region.

## Asia Pacific Pyranometer Market Revenue and Forecast to 2030 (US\$ Million)

## Asia Pacific Pyranometer Market Segmentation

The Asia Pacific pyranometer market is segmented into type, application, and country.

Based on type, the Asia Pacific pyranometer market is bifurcated into photovoltaic pyranometers and thermopile pyranometers. The thermopile pyranometers segment held a larger share in 2022.

In terms of application, the Asia Pacific pyranometer market is categorized into photovoltaic systems, meteorology, and climate stations. The photovoltaic systems segment held the largest share in 2022.

Based on country, the Asia Pacific pyranometer market is China, South Korea, Japan, Australia, India, and the Rest of Asia Pacific. China dominated the Asia Pacific pyranometer market in 2022.

Apogee Instruments Inc, Campbell Scientific Inc, Delta OHM SRL, Delta-T Devices Ltd, EKO Instruments Co Ltd, Hukseflux Thermal Sensors BV, LI-COR Inc, and OTT HydroMet Corp are some of the leading companies operating in the Asia Pacific pyranometer market.

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